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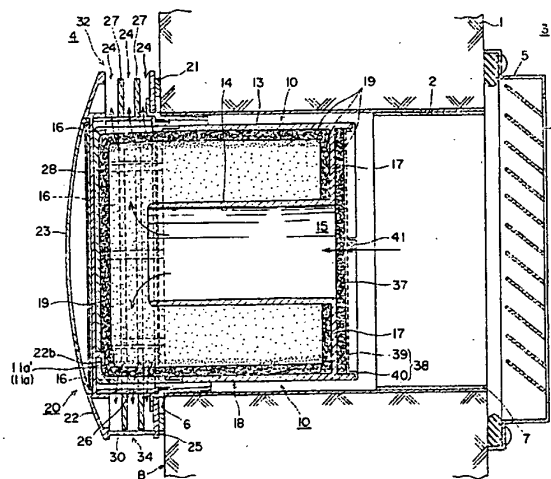
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- (51) 国際特許分類⁷: F24F 7/04 CO.,LTD.) [JP/JP]; 〒1080075 東京都港区港南 2 丁目 1 2 番 2 6 号 Tokyo (JP).
- (21) 国際出願番号: PCT/JP2004/000240
- (22) 国際出願日: 2004 年 1 月 15 日 (15.01.2004) (72) 発明者; および (75) 発明者/出願人 (米国についてのみ): 竹田 文春 (TAKEDA, Fumiharu) [JP/JP]; 〒1080075 東京都港区港南 2 - 1 2 - 2 6 東昌エンジニアリング株式会社内 Tokyo (JP).
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(54) Title: VENTILATOR

(54) 発明の名称: 消音カートリッジ付換気構造



WO 2004/094920 A1 (57) Abstract: A ventilator installed in the ventilation hole of an outer wall for natural ventilation, comprising a muffling cartridge (10) fitted into the ventilation hole (2) and a cap cover (20) detachably fitted to the indoor side opening of the ventilation hole (2) to cover the muffling cartridge (10) and cover the indoor side opening of the ventilation hole (2) and having ventilation ducts (24) blowing out introduced outside air passed through the muffling cartridge (10) to an indoor side (4). The ventilation ducts (24) are disposed along a wall surface (8) to flow out the introduced outside air along the wall surface (8). The ventilation ducts (24) may comprise normally opened portions (32) and control areas (33) in which a control board (30) capable of opening and closing a part of the ventilation ducts (24) to control the introduced air amount is disposed or may always be opened in all orientations.

(57) 要約: 本発明は、外壁の換気用孔に装着されて自然換気を可能とする換気装置の改良に関し、換気用孔 (2) に装着される消音カートリッジ (10) と、換気用孔 (2) の室内側開口に着脱可能に装着されて消音カートリッジ (10) を覆って換気用孔 (2) の室内側開口部を被覆すると共に、消音カートリッジ (10) を通過した導入外気を室内 (4) へ吹出す吹き出し口 (24) を有するキャップカバー (20) とを備え、吹き出し口 (24) を壁面 (8) に沿

[続葉有]

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/000240

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 91438/1982 (Laid-open No. 194431/1983) (Taisei Corp., Kikuchi Kogyo Kabushiki Kaisha), 24 December, 1983 (24.12.83), Fig. 3; lines 6 to 15; Fig. 1 (Family: none)	4
A	JP 7-260243 A (Sekisui Chemical Co., Ltd.), 13 October, 1995 (13.10.95), Column 6, lines 31 to 40; Figs. 1, 4, 8 (Family: none)	1
A	JP 2-48733 U (Kabushiki Kaisha Yunikkusu), 04 April, 1990 (04.04.90), Full text; Fig. 1 (Family: none)	7
A	JP 61-175831 U (Mitsubishi Electric Corp.), 01 November, 1986 (01.11.86), Full text; Fig. 6 (Family: none)	8
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 120297/1983 (Laid-open No. 28331/1985) (Obayashi Corp.), 26 February, 1985 (26.02.85), Full text; Figs. 1 to 2 (Family: none)	10

INTERNATIONAL SEARCH REPORT

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PCT/JP2004/000240

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F24F7/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ F24F7/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2000-304320 A (Matsushita Seiko Co., Ltd.), 02 November, 2000 (02.11.00), Full text; all drawings (Family: none)	1, 3, 4, 10, 12, 13
Y	JP 2000-304321 A (Haseko Corp., Kabushiki Kaisha Ken'yu), 02 November, 2000 (02.11.00), Column 6, lines 3 to 32 (Family: none)	1, 3, 4, 10, 12, 13
Y	JP 11-237090 A (Sanbekku Kabushiki Kaisha), 31 August, 1999 (31.08.99), Full text; Fig. 1 (Family: none)	1, 3, 4, 10, 12, 13

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
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